

**WHAT IS CLAIMED IS:**

1           1.     A head drum assembly mounting structure on a deck of a tape recorder, comprising:  
2           a head drum assembly including an upper drum, a lower drum, and a drum boss, all of which  
3     being connected on a same shaft;  
4           a drum base;  
5           a fixing means for fixing said drum base to said drum boss;  
6           wherein the radius of said drum boss is smaller than that of said lower drum and at least one  
7     hole is formed on said drum boss for receiving said fixing means.

1           2.     A head drum assembly mounting structure of claim 1, further comprising:  
2           a positioning means for determining relative position of said drum boss with said drum base.

1           3.     A head drum assembly mounting structure of claim 1, wherein said drum base is  
2     formed with at least one hole for receiving said fixing means, said at least one hole formed on said  
3     drum base corresponds to at least one hole formed on said drum boss.

1           4.     A head drum assembly mounting structure of claim 1, wherein said drum base is  
2     formed with at least one hole for receiving said fixing means, said at least one of said hole formed  
3     on said drum boss and at least one of said hole formed on said drum base are aligned with each other  
4     by a positioning means.

1           5.     A head drum assembly mounting structure of claim 2, wherein said positioning means  
2 comprises:  
3           a cut out portion formed on said drum boss;  
4           a protrusion formed on the drum base to be inserted into said cut out portion.

1           6.     A head drum assembly mounting structure of claim 5, wherein said cut out portion  
2 is a hole formed on said drum boss and said protrusion is a positioning pin formed on the drum base  
3 to be inserted into said hole.

1           7.     A head drum assembly mounting structure of claim 2, wherein said positioning means  
2 comprises:  
3           a protrusion formed on the drum boss for insertion into a cut out formed on said drum base  
4 for receiving said protrusion.

1           8.     A head drum assembly mounting structure of claim 7, wherein said protrusion is a  
2 shaft.

1           9.     A head drum assembly mounting structure of claim 1, wherein the drum base is  
2 integrally formed with a main base.

1           10.    A head drum assembly mounting structure of claim 1, wherein the positioning means  
2 comprises:

3           at least one locking hole formed in a lower portion of said drum boss; and  
4           a hook pin formed on said drum base corresponding to the locking hole for being  
5 complementarily connected with the locking hole.

1           11.    A head drum assembly mounting structure of claim 10, further comprising a pair of  
2 locking ends branched from a leading end of the hook pin and elastically biased in opposite  
3 directions, and a locking portion extending from an inner circumference of the locking hole to be  
4 locked with the pair of locking ends.

1           12.    A head drum assembly mounting structure on a deck of a tape recorder, comprising:  
2           a head drum assembly including an upper drum, a lower drum, and a drum boss, all of which  
3 being connected on a same shaft;  
4           a drum base slanted on a main base of a deck; and  
5           a fixing means for fixing said drum base to said drum boss;  
6           wherein the radius of said drum boss is smaller than that of said lower drum.

1           13.    A head drum assembly mounting structure of claim 12, further comprising:  
2           a positioning means for determining relative position of said drum boss with said drum base.

1           14.    A head drum assembly mounting structure of claim 12, wherein said drum base is  
2           formed with at least one hole for receiving said fixing means, said at least one hole formed on said  
3           drum base corresponds to at least one hole formed on said drum boss.

1           15.    A head drum assembly mounting structure of claim 12, wherein said drum base is  
2           formed with at least one hole for receiving said fixing means, said at least one of said hole formed  
3           on said drum boss and at least one of said hole formed on said drum base are aligned with each other  
4           by a positioning means.

1           16.    A head drum assembly mounting structure of claim 13, wherein said positioning  
2           means comprises:  
3           a cut out portion formed on said drum boss;  
4           a protrusion formed on the drum base to be inserted into said cut out portion.

1           17.    A head drum assembly mounting structure of claim 16, wherein said cut out portion  
2           is a hole formed on said drum boss and said protrusion is a positioning pin formed on the drum base  
3           to be inserted into said hole.

1           18.    A head drum assembly mounting structure of claim 13, wherein said positioning  
2           means comprises:  
3           a protrusion formed on the drum boss for insertion into a cut out formed on said drum base

4 for receiving said protrusion.

1 19. A head drum assembly mounting structure of claim 18, wherein said protrusion is  
2 a shaft.

1 20. A head drum assembly mounting structure of claim 12, wherein the drum base is  
2 integrally formed with a main base.

1 21. A head drum assembly mounting structure of claim 12, wherein the positioning means  
2 comprises:  
3 at least one locking hole formed in a lower portion of said drum boss; and  
4 a hook pin formed on said drum base corresponding to the locking hole for being  
5 complementarily connected with the locking hole.

1 22. A head drum assembly mounting structure of claim 21, further comprising a pair of  
2 locking ends branched from a leading end of the hook pin and elastically biased in opposite  
3 directions, and a locking portion extending from an inner circumference of the locking hole to be  
4 locked with the pair of locking ends.

1 23. A head drum assembly mounting structure on a deck of a tape recorder, comprising:  
2 a head drum assembly including an upper drum and a lower drum, both of which being

3 connected on a same shaft;

4 a drum base portion which is integrally formed on a main base;

5 a slant boss formed on a lower portion of the lower drum for supporting the head drum  
6 assembly to be slanted with respect to said main base of the deck; and

7 fixing means for fixing said drum base to said drum boss;

8 wherein the radius of said drum boss is smaller than that of said lower drum and at least one  
9 hole is formed on said drum boss for receiving said fixing means.

1 24. A head drum assembly mounting structure of claim 23, further comprising:

2 a positioning means for determining a relative position of said drum boss with said drum  
3 base.

1 25. A head drum assembly mounting structure of claim 23, wherein said drum base  
2 portion is formed with at least one hole for receiving said fixing means, said at least one hole formed  
3 on said drum base portion corresponds to at least one hole formed on said drum boss.

1 26. A head drum assembly mounting structure of claim 23, wherein said drum base is  
2 formed with at least one hole for receiving said fixing means, said at least one of said hole formed  
3 on said drum boss and at least one of said hole formed on said drum base are aligned with each other  
4 by a positioning means.

1           27.    A head drum assembly mounting structure of claim 24, wherein said positioning  
2 means comprises:

3           a cut out portion formed on said drum boss;

4           a protrusion formed on the drum base portion to be inserted into said cut out portion.

1           28.    A head drum assembly mounting structure of claim 27, wherein said cut out portion  
2 is a hole formed on said drum boss and said protrusion is a positioning pin formed on the drum base  
3 to be inserted into said hole.

1           29.    A head drum assembly mounting structure of claim 24, wherein said positioning  
2 means further comprises:

3           a protrusion formed on the drum boss for insertion into a cut out formed on said drum base  
4 portion for receiving said protrusion.

1           30.    A head drum assembly mounting structure of claim 29, wherein said protrusion is a  
2 shaft.

1           31.    A head drum assembly mounting structure of claim 24, wherein the positioning means  
2 comprises:

3           a plurality of positioning holes formed in the drum base portion; and

4           a plurality of protrusion from a lower portion of the lower drum by different lengths,

5 corresponding to the plurality of positioning holes, to be inserted into the plurality of positioning  
6 holes.

1 32. A head drum assembly mounting structure on a deck of a tape recorder, comprising:  
2 a head drum assembly including an upper drum, a lower drum, and a drum boss, all of which  
3 being connected on a same shaft;  
4 a drum base;  
5 a fixing means for fixing said drum base to said drum boss;  
6 wherein the radius of said drum boss is smaller than that of said lower drum.

1 33. A head drum assembly mounting structure of claim 32, further comprising:  
2 a positioning means for determining relative position of said drum boss with said drum base.

1 34. A head drum assembly mounting structure of claim 32, wherein said drum base is  
2 formed with at least one hole for receiving said fixing means, said at least one hole formed on said  
3 drum base corresponds to at least one hole formed on said drum boss.

1 35. A head drum assembly mounting structure of claim 32, wherein said drum base is  
2 formed with at least one hole for receiving said fixing means, said at least one of said hole formed  
3 on said drum boss and at least one of said hole formed on said drum base are aligned with each other  
4 by a positioning means.



1           36.    A head drum assembly mounting structure of claim 33, wherein said positioning  
2 means comprises:

3           a cut out portion formed on said drum boss;

4           a protrusion formed on the drum base to be inserted into said cut out portion.

1           37.    A head drum assembly mounting structure of claim 36, wherein said cut out portion  
2 is a hole formed on said drum boss and said protrusion is a positioning pin formed on the drum base  
3 to be inserted into said hole.

1           38.    A head drum assembly mounting structure of claim 33, wherein said positioning  
2 means comprises:  
3           a protrusion formed on the drum boss for insertion into a cut out formed on said drum base  
4 for receiving said protrusion.

1           39.    A head drum assembly mounting structure of claim 38, wherein said protrusion is  
2 a shaft.

1           40.    A head drum assembly mounting structure of claim 32, wherein the drum base is  
2 integrally formed with a main base.

1           41.    A head drum assembly mounting structure of claim 32, wherein the positioning means  
2 comprises:

3           at least one locking hole formed in a lower portion of said drum boss; and

4           a hook pin formed on said drum base corresponding to the locking hole for being  
5 complementarily connected with the locking hole.

1           42.    A head drum assembly mounting structure of claim 41, further comprising a pair of  
2 locking ends branched from a leading end of the hook pin and elastically biased in opposite  
3 directions, and a locking portion extending from an inner circumference of the locking hole to be  
4 locked with the pair of locking ends.